From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: Scott Robinson <spr@earthlink.net>
Subject: 26-series tube data source
Message-ID: <v03007801af1c1d8878ff@[153.34.139.252]>

Folks,

All four of the R-392 tubes listed in Josh Rovero's message are in the GE tube manual edition that Antique sells for $13.00. The tubes are:

    26A6
    26A7GT
    26C6
    26D6

This book is well worth having.

Regards,

Scott Robinson
spr@earthlink.net

"Buy a Velocette and enjoy those qualities that turn motor-cyclists into enthusiasts."

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: n5off@w5ddl.aara.org
Subject: 390 and A the same size
Message-ID: <572707@w5ddl.aara.org>

see subject

tom

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: mashaum@fcg.net (Mark Shaum)
Subject: 75A4 questions
Message-ID: <M.020497.114913.96@NE9G>

A 75A4 was recently added to the shack. I had been looking for a top line vintage SSB receiver to pair with my 100V for a while, and decided that A4 prices were not likely to drop in the near future, so bit the bullet..

I'm in the middle of the mechanical refurb (electricals come next.. a couple out of value resistors affecting AGC and the S-meter and one leaky cap have already been targeted - I'm doing it backwards for a change) and have a couple questions:

My unit has the vernier drive assembly. This adds enough stiffness to the PTO drive to make the dial drag adjustment somewhat useless, other than for outright locking in place. Is this normal for a vernier-equipped A4? I removed the vernier for a clean-n-lube and noticed that the torque required to drive the PTO/slug rack drive seems much greater than that in my 75A3. The tuning dial on my A3 will almost spin by itself after bearing adjustment.

I note some backlash in the passband tuning. My unit seems to be a bit out of spec with respect to the max 50hz shift in 'tone' as the PBT is swung across its range. When I swing from 'right' to 'left', I get a little 100-150hz 'hump' over about a 40 degree range where the BFO and PTO don't quite track. Swinging from 'left' to 'right', I don't notice this. Not an overly big deal, but I'm wondering if anybody has fiddled with the BFO/PTO tracking in the mechanical sense (outside of the L/C adjustments on the BFO as called for in the manual).

I'm lacking a CW filter. This unit came with the 3.1 filter, and does a reasonable job on CW if I narrow the bandpass a bit with the notch filter. I've added an L/C filter to cover am as with my A3, for a nice 8khz bandpass. I also plan to try using the 2 and 8 khz filters from one of the 390A's to see how they 'sound'. Having independent terminating capacitors for each filter position makes swapping around pretty easy.

I have a few 455 khz range crystals, and am considering building up a 4 pole CW filter. I have a nice set of crystal impedance meters, so hopefully can match computer design to actual components without surprises. If it turns out that this can be done inexpensively, and if 455 khz crystals can be ordered at reasonable cost, would anybody else be interested in sharing costs to build up a few 6 or 8 pole units? What would be a reasonable upper limit as to cost for a 'semi-production' aftermarket filter?

I'd like to find an original 500 or 800 hz CW filter for comparisons, but it will have to be reasonably priced. Or any 455 khz center freq filter with less than a 1 kc bandpass for experimenting. Let me know if you have anything cluttering up that desk drawer that might work!

Mark Shaum, K9TR
mashaum@fcg.net

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: "Bob Ragain, 303-470-2534, RAGAIN@SEDALIA.OMNES.SLB.COM"
<RAGAIN@hubvx6.sedalia.wireline.slb.com>
Subject: A transformer question
Message-ID: <970204134919.2e003b5d@hubvx6.sedalia.wireline.slb.com>

Fellow BA'ers,

I am trying to figure out a transformer and I know this is the place to ask for help.

This is a really nice transformer, with filament level voltages like 5 v and 8 v with lots of amps (probably 15 plus). There's one slight "gotcha". It's a 3 phase transformer and my house is single phase.

The configuration is E/I laminations with each of the 3 legs on the E having the following windings:

    Primary feeding it with 120 vac single phase input works fine
    Sec 1   5 volts output
    Sec 2   8 volts output

There were interconnections between the three primary windings but those interconnects were removed first thing.

So, there are three sets of these three windings, one set on each leg of the E, with no cinnection between sets of windings.

I can use just one set, but that's a-wastin' two sets of windings. First thing done was to parallel the first primary with the second primary. No problem once I got the polarization right. So now I have two of the sets of windings running with paralleled primaries, and I get outputs from those secondaries. The xfmr now runs cool with 15 amp load on the secondaries. I'm two thirds of the way to using all the transformer!

Here's the challenge: No matter which polarization I try to use to parallel that third primary with the other two primaries the combination is a near short with 120 VAC input. By the way, all this testing was done with a high wattage bulb in series with the 120 VAC input, to prevent letting the smoke out of the transformer...or the house.

It probably obvious that there is no way to parallel all three primaries of a three phase transformer and run it on single phase. Lots of you are probably saying, well, duh, of course.

So how come two of the primaries can be paralleled with no problem but the third can't?

Thanks for the help and education.

Bob

Bob Ragain WB4ETT Littleton, CO

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: Walt Novinger <waltn@earthlink.net>
Subject: Re: A transformer question
Message-ID: <2.2.32.19970204225846.006a6fb4@mail.earthlink.net>

At 02:51 PM 2/4/97 -0600, you wrote:
>Fellow BA'ers,
>
>I am trying to figure out a transformer and I know this is the place to ask
>for help.
>
>This is a really nice transformer, with filament level voltages like 5 v and 8
>v with lots of amps (probably 15 plus). There's one slight "gotcha". It's a
>3 phase transformer and my house is single phase.

John Staples, W6BM, wrote an article in ER last year (sorry I can't be more specific than that) dealing with using 3-phase xformers on 2-phase systems. This may be of help.

73 de Walt

==========
Walt Novinger Real Radios Keep You Warm At Night!
Collector of hollowstate communications receivers and test equipment
waltn@earthlink.net wnovinger@shl.com

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: Michael Hanz <AAFRadio@erols.com>
Subject: ART-13 RF Ammeter laziness
Message-ID: <32F77B96.6464@erols.com>

This has been a recurring complaint from amateurs ever since they started using surplus aircraft transmitters. The short answer is that you'll never get the ammeter to wake up until you present it with the load it faced in the aircraft. Dave Stinson's series capacitor is an excellent place to start, but remember that the average "fixed" antenna that ran between the radio space and the tail had an impedance that was on the order of 5 ohms! A 60W lamp at full briliiance has a resistance
of 240 ohms, so that RF current is pretty low. If you want to fix it, drag out an ARRL Handbook and wind yourself a 4:1 broadband UNUN on a good RF toroid. For 100W
it doesn't have to be too large. Stick it in a black wrinkle finish box if you like.
I prefer it that way to maintain the aesthetics of the rig...I made one for each of
my aircraft sets in the basement. Mount a spring loaded binder post on one side and
a coax connector on the other, and place the box as close to the output post of the
transmitter as possible. That way you present a 12.5 ohm impedance to the transmitter
but have a minimum of RF radiating around the shack. You'll be gratified at how the
ammeter will suddenly come to life, even though it's working into your avarage 50 ohm
feeder. Yes, you could use a 9:1 design for the UNUN as well, but there are more losses
than with the 4:1, and most A/C transmitters will be happy with 12.5 ohms.
--
Michael Hanz KC4TOS
Herndon, VA
AAFRadio@erols.com

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: jproc@bellglobal.com
Subject: BA Crypto Machine Photos
Message-ID: <Chameleon.4.01.2.970204112304.jproc@>

Dear BA'ers,

Recently, I acquired some BA crypto machine photos courtesy of the Canadian Security Establishment. If anyone wants full size, selected, JPEG copies of these photos, please let me know and I can send them as attached files to E-mail. As a reminder, there are two stories beginning with the same file name in the BA archives which accompany the photos.

KL7.JPG   Colour 108 kbytes
KWR37.JPG   B & W   51 kbytes

BTW, does anyone know the meaning of 'order wire mode' in the context of a crypto broadcast? This mode is found in the KWR-37 online crypto receiver. Please send all photo requests or responses via private E-mail.

Regards,

Jerry Proc VE3FAB
E-mail: jproc@bellglobal.com
HMCS Haida Naval Museum
Toronto, Ontario
'Looking for a 'AN/SRC-501'

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: bsheck@NIMUE.HOOD.EDU (Bob Sheck)
Subject: Re: BA Crypto Machine Photos
Message-ID: <01IF0XPFEE2A001BSN@NIMUE.HOOD.EDU>

Jerry-

Old Friends!
>KL7.JPG   Colour 108 kbytes
>KWR37.JPG   B & W   51 kbytes

>BTW, does anyone know the meaning of 'order wire mode' in the context of a
>crypto broadcast? This mode is found in the KWR-37 online crypto
>receiver. Please send all photo requests or responses via private E-mail.

An Order Wire was a circuit that all the tech control facilities could talk to each other. Used for coordinating syncing up the cryptos. I think the order wire mode was a way to talk in the clear to the distant end for the purposes of syncing up. It's been about 10 years since I even thought about a KW-37. Oh, just noticed the KW_R_ that's the receiver. It had to be synced to a time standard before it would be able to decrypt. Don't remember much anymore. Always tried to keep my distance from those old tube-monsters!

Yes, Please send the pix.

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997

From: Spencer Petri <spetri@e-tex.com>
Subject: Books FS.
Message-ID: <m0vrqCd-0000dIC@e-tex.com>

1, 2, and 3 are sold. Thanks.

The Eveready 1958 Replacement Guide for $2 mailed is still here. This is a booklet which lists makes of radios and the batteries needed.

73 de Pete WA5JCI
****
6 Mtr -- WAS #490, WAC CW, DXCC/91 Countries, VUCC/617 Grids
****

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: "Robert S. Ross" <radiorob@serix.com>
Subject: Canadian #19 Set HAM Net........
Message-ID: <199702042045.UAA25309@cm.serix.com>

Hello BA'ers:

This past Sunday I had the good fortune to stumble onto a "Great" BA Ham Net. It is called the Canadian #19 Set Net. I had heard of this net before...but really never went looking for it. Well.....I'm glad I found it!! This net is mainly intended for Military Boatanchors...and in particular...the #19 Set. However...They are quite receptive to discussions regarding all BA Rigs.....especially since many Commercial BA rigs were also heavily used buy the Military. eg...SP600, Collins Rigs, RCA AR88 etc.

I am not really a "Military" Rig collector....but they made me feel right at home when I checked in..and I know I will be rejoining them on the net whenever I can. I learned more about Military BA's in the 2 hours I listened to the net than I have learned in 20 years of collecting. Perhaps what made the net more appealing to me...was the fact that it is a "Canadian" net...with mainly local guys checking in...I felt like part of the crew...even though it was my first time checking in. There were also some American checkins who showed great interest in our Canadian sets....and offered lots of good info on some of the sets from south of the border.

Also discussed were related "War Stories" about Surplus finds, Old Wartime Museums, Funny stories.....and some "NOT" so funny stories!! HIHI.

The net was run by Net Controller "Dave"....VA3ORP who is located in Kingston, Ont. The other main cog of the net is Chris...VE3CBK, in Ottawa, Ont. Both of these fellows have real nice collections of Military Gear and

are "Very" Knowledgable in the field.

The net is only held once a month...it is the first Sunday of every month starting at 2000 Z on 3760 LSB +/- QRM.

I would highly recommend this net to anyone interested in Military gear...I know I'll be checking in again. Another nice point about the net is that in the 2 hours I listened...there was no QRM ....no Carriers, no whistling, and nobody playing their local FM station over the net. Just a bunch of BA enthusiasts having fun and talking about what turns their cranks!!

Has anyone else ever checked into this net?? I'd be interested in your comments if you have....

73...ROB

Robert S. Ross VA3SW
London, Ontario, CANADA

Radio DX'er
Antique Radio Enthusiast

Wayward home for Hot Tubes....Heavy Radios...and Chrome Microphones!!!

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: FRANKK6NL@aol.com
Subject: Classic Exchange
Message-ID: <970203225301_41370431@emout12.mail.aol.com>

My old 6L6 tritet and 203A from 1937 ran like a charm. Must be something wrong with these postwar rigs from comments heard here ! My problem was contacts. Very few sixes and sevens were on and the midwest guys seem either have tin ears or maybe it was one way propagation to give them the benefit of the doubt.

Frank K6NL

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: Rich Arland <qrprich@postoffice.worldnet.att.net>
Subject: Classic Radio Exchange
Message-ID: <19970204183844.AAF21061@LOCALNAME>

This was my very first attempt at this little "sprint". My weekends are really hectic, so Tricia and I normally reserve Sunday as a "slug day" where we don't do anything that requires more than minimal effort (breathing,

sighing, sweating, etc...)

Anyway, it was a real experience to get on the air with my "ancient" Hallicrafters SX-117/HT-44 setup and work some of the BA gang.

In all I made 10 Qs: 4 on 40 meters and 6 on 80 meters with my station. Had a lot of fun and even recorded some of the chirpy and drifty signals for some of the guys in the local club to hear tomorrow night. (Not that all of the guys I worked had drifting or chirpy signals....but there were a couple....gives one a sense of adventure and a look at how radio really was in the old days).

I computed my score and got 17500 points (if I did it right) so that will go in to the keepers of such things in a day or two.

Now I have to get the TCS operational, that would have been some real fun. Actually worked a TCS-8 transmitter during the event...it sounded very clean and stable. Also have a B&W 5100B that I need to get on the air with the HQ-170AC for my AM rig (yes, I joined AMI!).

73 all

rich K7SZ

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: Don Reaves <dr@cei.net>
Subject: Collins GF-333 Receiver?
Message-ID: <Pine.LNX.3.91.970204011506.19775K-100000@kc5jh.reaves.net>

A local ham has one of these buried deep in his boneyard, along with a parts carcass. It looks like a small R-1051 with mechanical counter frequency selection. Black rack mount cabinet, white knobs. Was I hallucinating? Can't find this one in any of my references. I could be wrong about the nomenclature - paper labels stuck over the tag partially obscured the numbers. Miniature tubes, of course.

He also showed me his trading material: HT-40, T-60, and a Challenger. Now if I can find what he wants...

Don Reaves WA5BBS   dr@cei.net

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: EdKB2NSP@aol.com

Subject: Re: CX
Message-ID: <970203203622_-1643778334@emout07.mail.aol.com>

Although I wasn't actively pursuing CX, I managed a few very nice QSOs on 40 meter SSB. It was like heaven, since it was the first time I Put my B&W 5100 / 51SB on the air ! I got the rig in October, and took my time with it ! It really paid off Cosmetically it's about a 9 and with the reports I got, It's operation is about that high also. I switched over to AM and got great comments also. I wish it did 160 meters, but I'm thrilled with it anyway
  Good night !

Ed K.

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: sinned@VNET.IBM.COM
Subject: CX 10/15/20 CW QSO's
Message-ID: <199702041811.MAA06671@uro.theporch.com>

Did anyone have any luck on these bands? 10 and 15 were dead-to-the-ear but 20 was plenty active just a bit lower down the dial. I CQ CX'd on 20 during the first hour (120W output) and got no responses. Never heard any other CX QSO's going on either.

Dennis
W5FRS - Texas

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: CX, SSB and Suggestion
Message-ID: <199702041558.JAA28729@lesol1.dseg.ti.com>

I'm glad to hear that some folks managed a few SSB CX contacts. For me, the fun ended up being in the preparation. I had the CE 100V/R390, Swan 500, Eico 753, Drake TR-3, Collins KWM-2A and Heath SB-102 set up and ready to go with real-time switchover between rigs (i.e., six rigs per contact!). All I had to do was throw the coax switch and grab a different microphone.

My wife had plans for me early in the afternoon so it was nearly 4 p.m. CST when I finally got on the air. Monitored 75, 40 and 20 meters, no CX SSB activity heard. 7290 was clear so I called CQ Classic Exchange, and called CQ Classic Exchange, and called CQ Classic Exchange. Even resorted to turning the SB-220 on. Didn't resort to general CQ though. (Only response I received was that I had a nice signal but was splattering and interfering

with a net up a few kilohertz.) In between CQ's I tuned around 75, 40 and 20 meter frequencies looking for other CX SSB activity, but found none. Finally gave up the ghost after nearly two hours.

I returned after supper a little before 7 p.m. CST ready for some 40 meter CW CX activity, but found none. Reverted to calling CQ CX at 7060 for 15 minutes or so. Nothing... Reverted to 80 meter CW and enjoyed CX for the next several hours using mainly the SB-102 I built 25+ years ago. I had forgotten what a nice CW rig it is. With the 250 Hz CW filter (third party filter) and operating split with an external VFO, it was a joy.

I concluded from the afternoon's activities that contest critical mass is achieved only when enough stations are operating to maintain a group of frequencies active. My suggestion for the next CX is to concentrate the SSB participants so as to achieve critical mass. Perhaps have one-hour SSB windows per band. Say, 1900-2000 Z for 20 meter SSB, 2200-2300 Z for 40 meter SSB and 0100-0200 Z for 75 meter SSB. What do you think, Al? Other suggestions?

Regards,
Bill Sorsby, N5BU

****
bill.sorsby@dlep1.itg.ti.com
Views expressed herein are no one's fault but mine.
****

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: Re: CX, SSB and Suggestion
Message-ID: <Pine.ULT.3.95.970204100855.13041A-100000@admin.aurora.edu>

On Tue, 4 Feb 1997, Bill Sorsby wrote:

> I concluded from the afternoon's activities that contest critical mass is
> achieved only when enough stations are operating to maintain a group of
> frequencies active. My suggestion for the next CX is to concentrate the SSB
> participants so as to achieve critical mass. Perhaps have one-hour SSB
> windows per band. Say, 1900-2000 Z for 20 meter SSB, 2200-2300 Z for 40
> meter SSB and 0100-0200 Z for 75 meter SSB. What do you think, Al? Other
> suggestions?

I would agree with that. Also, there were several other contests on over the weekend which probably took some away from the CX activity.

Be nice to pick a different weekend maybe.

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: polepeeg@aa4rm.radio.org (Marty Reynolds' BA ID)
Subject: CX-broken TCS AC P-S Question
Message-ID: <199702041312.IAA02752@aa4rm>

I CX-ran my TCS-13 (Hamilton Co., NYC - who's he?, Contr. # 48xxx) on a PP380/U (Federal Radio, Contr. # 42xxx).

Now my manual is for TCS 8-12 and shows AC p-s.s with connection for the remote control box and 2 5R4GYs as the TX rectifiers. The PP380 has no remote box connection and one 5U4G.

Now my PP380 clearly spent time submerged*, but not long enough to corrode out one octal and one Cannon socket. Also the PP380 has JAN tubes from 1949 that're probably original whereas the TCS-13 sets have WW2 tubes... and the TCS-13 has a higher contract number (might be from a different Navy contract office?)

As Yul Brynner said in "The King and I," 'What a Puzzlement.'

The whole thing is something for the "who cares" department. The 600 ohm audio line for the remote's speaker can be picked up in the PP380 & the entire set-up just runs swimmingly.*

Just Curious

M

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: ARONGV@aol.com
Subject: EF Johnson Paint
Message-ID: <970204145241_682909251@emout01.mail.aol.com>

Hi Gang:

For the last few months, I've heard that if you want to match Johnson cabinet

paint, go to an auto parts store and ask for Plasti-Kote GM #7191.

Well, I've looked all over town, even checked out parts stores when on the road. lots of stores had Plasti-Kote, but not 7191.

Today I decided to take the paint by the horns. I went to my closest auto parts store and asked them why they didn't carry 7191.

Surprise, it's not sold very often, so they have to order it from the warehouse. I suppose some stores in another part of the country this may not be the case, but it sure is here in Kansas City.

Anyway, I ordered a nice supply and then picked it up just minutes ago. I raced home and compared 7191 to a few cabinets badly in need of a close match. Wow! Very close, indeed.

But like all BA repaints & matching, what are you matching? Like was the cabinet never exposed to direct sunlight? Never had to adjust to giant temperature swings (like being in a garage winter and summer?).

Well, I also suspect Johnson had a few variations off the theme, not as bad as Heathkit, but some nonetheless.

While I was waiting for the paint, I spotted an alternate. Some Johnson paint is a tad lighter than most. I brought a can of GM #7158 home and compared it to the cabinets. If yours is the somewhat lighter Johnson color, I suggest #7158.

Now I know a lot of guys out there don't have access to a store or warehouse with 7191, so I got an idea.

I have an WTB: Johnson/Swan posted today. The first four guys who help me find that stuff will get a can of 7191 free. If I don't get any takers, the four extra cans will be first come, first served only after 5 pm Eastern time Wednesday for $7.50 mailed per can. And just one can per request.

I don't want to be the Midwest EFJ paint supplier, so this is a one-time offer. Please contact me through ARONGV@aol.com. I'll post the list when they're all gone.

Good Hunting

Ron
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Keeping Hallicrafters, Johnson & Swan on the air

Ron

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: Brien Pepperdine <pepperb@gov.on.ca>
Subject: EFJ Adventurer- wavey wavery meter needle
Message-ID: <Pine.OSF.3.93.970204190100.19338B-100000@govonca2.gov.on.ca>

Anyone with an EFJ Adventurer now or owned in the past:

After acquiring this box last Sept and then being very busy learning new technology reinventing wheels at
work (and wife finding other wheels for revision at home), it did take me until January end to plug it in and see how it did.
Long and short is it puts out the power advertised (fine) and
sounds fine sig on the monitoring rcvr (fine!).

But I wonder - did (some) meter needles of that era (ca. 1953) sometimes waver somewhat? This shows a linear travel to the Grid max indication, but when I go to Plate indication the needle sails to max and then slowly wavers its way down to around 110 mils, where it should be.

Was damping of movements a luxury or what? Can I damp this thing somehow so it does not sail into hyperspace (Star Wars revisited) and rather goes instead nicely to the plate current in a less hectic and spastic motion? Any suggestions (how to mod a fix, live with it, this is wrong etc.) are welcome.

Never seen this before, but figuring it was "Novice" rig I felt maybe a lower performance (non-damped) movement might have been chosen for a Novice cost structure.

Brien
Toronto
pepperb@gov.on.ca

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: WA6GYD@aol.com
Subject: Eico manual
Message-ID: <970204151808_2092860617@emout17.mail.aol.com>

Need a manual on an old octal tubed VTVM an Eico 214. I asked w7fg and he does not have and Tannenbaum does not have. I looked for any info on Eico on the net and found only an insurance company. Any suggestions. It sure is a nice old meter with an 8" meter face. It comes alive but does not calibrate.

Thanks, DDon (finger sttuter)

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: Ken_Warren@beavton.k12.or.us (Ken Warren)
Subject: Elmac PMR-7 specs
Message-ID: <3543592926.5508182@beavton.k12.or.us>

Does anyone have the voltage requirements for the Elmac PMR-7 receiver?

I am also looking for the model number and output voltage specs for the
 mobile power supply that was used with the late 60's early 70's heathkit
2meter mobile transceiver (not the tower).

Thanks for any info.

Ken Warren K7RPX

Ken_Warren@beavton.k12.or.us
KenwK7RPX@worldnet.att.net
--
Beaverton School District
Beaverton, Oregon

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: Ho4bart@aol.com
Subject: Re: End of CW
Message-ID: <970203214151_-1977896364@emout19.mail.aol.com>

This will undoubtedly be reported in the next issue of
'Morsum Magnificat', an english magazine devoted to
telegraphy. in the past they've printed the text of such
last messages. i wish i could have tuned into one of
these, not that i could take it at 20wpm+.
maybe in the future when HF is largely emptied out,
we can have special-event stations rebroadcast
historic messages, something like that swedish
Alexanderson alternator occasionally put on the air on
LF. hue miller

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: bharris@scs.philips.com (Brian Harris)
Subject: For Sale Conar Twins
Message-ID: <2f6aaee0@scs.philips.com>

With this weekend's CX over, I decided to put my beautiful Conar 500/400 twins for sale. I used them this weekend for several 40 meter CW contacts that would have to qualify as "ragchews". It's amazing to me what 10 Watts can do.

For those unaware, the Conar transmitter covers three bands (80/40/15) with a single 6DQ6 crystal oscillator. A similar design is featured in the 1962 ARRL Handbook. The receiver is a single conversion superhet, also covering 80/40/15. It has a built-in speaker.

Although these units date back many years, they are like new. In fact, I don't think they have ever been used, except during CX weekend by me. I say that because in the condition they were in when I got them over a year ago, nobody could have used them. Remember most of these units were purchased in kit form and built by neophytes. As such, the odds for wiring errors were high.

My transmitter had been wired such that it was always in the transmit mode. In other words, having a key in the key jack made no difference. More than likely the disappointed builder plugged it in upon completion, saw the unexpected plate current and shut the thing off, never to be energized again. Indeed, the insides look as if they never had power applied. I discovered the wiring error, fixed it and put it on 7010, 7040, 7065 and 7135 with good results.

The receiver was wired properly (almost) but it also apparently had never been used. It was as dead as a door nail (whatever a door nail is) due to severe misalignment. After I separated the three input tuning coils, to eliminate some shorted terminals, and performed an alignment, the receiver came alive. It has some hum which is NOT coming from the power supply filter capacitors but pulling a 6AX8 kills it. I think this is a combination tube that is comprises the first audio/BFO/detector stage. Having no schematic for this receiver, I hesitated to try to trouble shoot it further. The hum did not prevent me from making QSOs with the receiver.

Cosmetically, the receiver is perfect - paint, front panel, knobs. The transmitter is similar, but it has a few (two or three) small scratches in the brushed aluminum finish. A stickler for detail can probably rebrush the aluminum and make it look new. Personally, I could care less about the little scratches.

I would like to get out of these only what I have in them. That is $125 for the pair. I won't take less and I don't believe in running the prices up by saying, "make me an offer". If I don't sell them, they'll go back up on the top shelf for the next CX. Sales terms are simple, first come, first served.

One last thing - these units are very light. Shipping to Anywhere, USA will be minimal.

73,

Brian Harris WA5UEK

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: bharris@scs.philips.com (Brian Harris)
Subject: For Sale HT-17
Message-ID: <2f6aaef0@scs.philips.com>

In a continuing effort to win my house back from the BoatAnchor invasion, I am offering my Hallicrafters HT-17 transmitter for sale. It took some serious soul searching before I decided to sell this rig. It has held a special place in my heart after my article on it was published in Electric Radio (April or May 1996). There are pictures in the article if you want to see what it looks like.

It works great on 80 thru 10 meters, except I still haven't created the required 15 meter tank and interstage coils, although I have the hardware to do so. This is a simple matter than can done when 15 meters comes back to life.

I would like to recoop my investment in the rig, the manual and the bundle of new capacitors and resistors it took to fix it. That amounts to about $100. Since this is a more scarce item than my previously posted Conar twins, I will accept offers until late Friday (2/7/97) afternoon and will sell it to the person with the most convincing argument.

73,

Brian Harris WA5UEK

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: bjacob@iofc.com
Subject: FS -- QST MAGAZINES 1952-1975
Message-ID: <199702050054.MAA31108@iofc.com>

Hello BA fans,

I have a nearly complete set of QST mags from 1952 through 1975.
Please send me an e-mail for the complete listing, if interested.

73s,

Jacob Worthington

K4HJ

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: George Humphrey <gah@koyote.com>
Subject: FS: Halli SX-99
Message-ID: <1.5.4.32.19970204035538.0067e710@mail.koyote.com>

BAers,

I have overloaded my winter project agenda, and will not get to rebuild
a Halli SX-99 in my garage. The receiver appears all original except for
tube replacements and a bad power cord. Some tubes are still Halli. The
top of the case has scratches, but a paint job will fix. No dents or dings
in the metal. The dials are in good shape, as are the front panel markings.
I have not checked the tubes or electrolytics as I would always do prior to
powering the unit. All knobs appear original equipment. I don't know a
better way to offer than to say best offer over $60 plus shipping from 75440.
I will let the offer run until 2/7 for our digest members to be fair to all.

Thanks,

73 George KC5WBV
gah@koyote.com

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: Hans Jense <jense@eos.arc.nasa.gov>
Subject: FS: LM-13 frequency meter, Heath IO-12 scope
Message-ID: <199702042144.NAA24697@eos.arc.nasa.gov>

Gang,

in preparation of my return trip to The Netherlands after my one year
stay in the SF Bay Area I gave my collection of BA equipment a
critical examination. Guess I don't want to take the following pieces
with me:

1. Military frequency meter LM-13 in black wrinkle carrying case.
Contains a homebrew AC power supply in the battery compartment.
Includes calibration manual. Cosmetics: outside shows some paint
flaking. Inside clean. Previous owner soldered (!) a small lamp
socket on the right side of the front panel, but this can easily be
removed. The unit works: I checked several crystal checkpoints
against the tables and they are dead on. $30 plus shipping.

2. Heathkit oscilloscope IO-12. Not a boatanchor (too light) but all

tubes. Single channel, bandwidth 2.5 MHz. Not braindead, but not quite working either: produces a trace on several positions of the timebase frequency switch, none on others. Tested several tubes: most are OK, some are gassy. Cosmetics: small dent in round scope cover, one small knob not original. Clean. Inside: clean, wiring done very neatly. $15 plus shipping.

-- Hans

==
Dr. G. J. Jense | Command & Control and Simulation Division
Senior Scientist | TNO Physics and Electronics Laboratory
Virtual Environments | The Hague, The Netherlands

                        Currently on leave at:

 _   _   _______   _
| \ | / \ /   / \   Human and Systems Technology Branch
| \ | /   \ _______   /   \   NASA Ames Research Center
| \ | /   \   \ /   \   Code AFH, Mail Stop 262-2
| _| /   _______/ /   \   Moffett Field, CA 94035-1000

                        Phone: (415) 604-1877
                        Fax: (415) 604-3729
                        Email: jense@eos.arc.nasa.gov

==

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: Karan Lee Carruth <klccarru@tenet.edu>
Subject: FS: SCR-284-A
Message-ID: <Pine.OSF.3.91.970204123053.3972A-100000@gaston.tenet.edu>

SCR-284 parts. All items plus shipping.

BC-654-A Excellent. Includes key, used PE-104 and all but two spare tubes. $150.00

BC-654-A Excellent front panel and inside except appears to be missing an electrolytic capacitor and some tubes. No key. $85.00

FM-41-A Rack for vehicular mounting. $125.00

CD-501-A Cord (power source to BC-654). $45.00

IN-106-A Antenna mount and insulator (fits on side of BC-654)
Ceramic type. $9.00

PE-103A Dynamotor to power BC-654. Appears to be NOS.
$125.00

Everything above as a set. $500.00 plus shipping.

Best regards,

Lenox

Lenox Carruth, WA5OVG
Dallas, Texas
klccarru@tenet.edu

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: "Grant Youngman" <nq5t@gte.net>
Subject: Globe King 500 Follies
Message-ID: <199702040413.WAA11075@smtp.gte.net>

Gang ...

Pulled the Globe King 500C RF deck tonight to renew my acquaintance with a couple of nagging anomalies in its operation and see if I could get things fixed.

Discovered that the final grid meter shunt, called out in the manual at 22 ohms, had been replaced somewhere along the line with a 300 ohm resistor. That certainly makes no sense, and it hadn't occurred to me previously to check the meter shunts. Hm-m-m-m ... Guess this means I've never had the drive level set anywhere near the correct 15 mils. Maybe this explains why the fully loaded output has always

been low -- and may explain a few other odd behaviors that keep it from loading properly at all on 40M and up.

Second, the schematic shows a single filament transformer for the 4-400A (T1). In my RF deck there are TWO paralleled transformers mounted on the rear of the chassis on either side of the tube socket. From all appearances, the two transformer installation is factory. Maybe the guys at WRL just sort of used what they had on hand that day. Anyone know if parallelling two filament transformers was standard in this transmitter?

Akin to the filament transformers, I found another part paralleled that does not show up in the schematic. The schematic and parts list show a single HV bypass cap on the HV line (C28). In the transmitter, there is one doorknob style HV bypass cap on the 2KV line right by the Millen connector where it enters the RF deck, and a second cap above the chassis right at the point of connection to the RF choke. Wonder what other "interesting" differences exist between parts spec and the actual construction

Given the rather strange part substitution for the grid meter shunt, I have a part-by-part check of every other component on the deck in progress :-).

Grant/NQ5T

Grant Youngman / NQ5T

nq5t@gte.net
http://home1.gte.net/nq5t/index.htm
Double Oak, TX -- nr Dallas

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: Don Reaves <dr@cei.net>
Subject: Re: Globe King 500 Follies
Message-ID: <Pine.LNX.3.91.970204003841.19775G-100000@kc5jh.reaves.net>

Yeow! Another Globe King 500C owner! I found mine at the Memphis hamfest a few months ago. It had been stored for 15 years in a basement in Tennessee, according to the owner. I'm rereading everything you guys have said about rust removal for the last 3 years. It came with a HX-20 SSB exciter that was in use with the Globe King.

Grant wrote:

> Second, the schematic shows a single filament transformer for the
> 4-400A (T1). In my RF deck there are TWO paralleled transformers
> mounted on the rear of the chassis on either side of the tube socket.

Same here, two fil. transformers mounted neatly on the inside back panel,
paralleled to the 4-400A socket. Must be a factory installation.
My RF deck looks untouched by solder suckers.

> transmitter, there is one doorknob style HV bypass cap on the 2KV
> line right by the Millen connector where it enters the RF deck, and
> a second cap above the chassis right at the point of connection to
> the RF choke.

Same. One below, one above chassis.

I checked the grid shunt resistor, too. Marked 22 ohms, reads about
24.7 ohms.

I need a manual or copy for this beast. I have a 500B manual but there
are obviously some differences. The B used a 4-250A.

Is there a serial number anywhere on these?

Don WA5BBS
dr@cei.net

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: pmills@A.crl.com (Phil Mills)
Subject: hc-6 xtals needed
Message-ID: <199702050057.AA28398@A.crl.com>

I need any or all of the following xtals in HC-6 holders:

        5,700 kc
        9,300 kc
        16,500 kc
        23,300 kc
        29,000 kc
        30,500 kc
        31,500 kc

If anyone has any to sell, please let me know.

thanks & 73,
Phil
.
Phil Mills, AB5TH
pmills@a.crl.com
281-992-5762 days
Friendswood, TX   (south of Houston)

*****   *****

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: David Prince <davprin@gil.com.au>
Subject: Help with HRO Rx
Message-ID: <32F82434.6F5B@gil.com.au>

Hi Gang,
        I have just started to strip down an HRO-M Rx. As this is the first HRO I've tackled, I have a few questions.

1. Is there any special procedure in dismantling the Tuning Dial?

2. Should all the tube sockets be ceramic? I think some have been replaced in this unit.

3. What's the best way to get all the gunk out of (and clean up) the   tuning capacitor plates?

Thanks

de VK4KDP

--
Dave Prince
davprin@gil.co.au

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: Chuck Penson <penson@sci.mus.mn.us>
Subject: HO-10 sold
Message-ID: <32F7495E.5CB4@sci.mus.mn.us>

Thanks to all who responded...

--
Chuck Penson
WA7ZZE

penson@sci.mus.mn.us
612.221.4510 voice
612.224.5092 fax
http://comped.sci.mus.mn.us

Madness takes its toll. Please have exact change.

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: Rich Arland <qrprich@postoffice.worldnet.att.net>
Subject: HQ-110 Restoration
Message-ID: <19970204223136.AAA21500@LOCALNAME>

Gang:

The progress continues. Monday we completely cleaned the front panel and applied several coats of wax after we used some metal polish to cut through the dingy layers of paint to restore some lustre to the gray paint. Now the front panel looks good, except for some scratches that won't come out.

The chassis has been thoroughly cleaned and treated with metal polish and wax and looks very nice, now. All the controls were removed (all had been treated with DeOxit prior to starting the restoration).

All tubes check good except for the two 6BE6s, one of which is a little low in emmission and the other one is slightly leaky. Two new tubes will be placed in the line up prior to alignment.

All the coils and caps both above and below the chassis look good. The receiver was working prior to our cosmetic restoral, so it should still work after we put everything back together (anyway that's the plan, and it sounds good!)

The cabinet is at the autobody school to be straightened and have a paint touch up on those areas that are slighly dinged.

The dual dials cleaned up nicely along with the plastic dial pointer assembly.

Tomorrow we put it back together and start the alignment. Hopefully, by the end of the week I'll have a restored HQ-110 to add to my collection. So what if it's a little dinged up...so am I...! Besides, the scratches and dings add "character" to the set.

More as things progress.

73 rich K7SZ

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: jcall@sirius.com (Jim Carrington)
Subject: Re: HT-32 Horors revisited.
Message-ID: <199702040359.TAA04941@mail1.sirius.com>

snip
 In so few words, the Switch is now useless.
>Well , what to do?
>(1) do I dream for a OP switch.
>(2) anybody got a spare exciter.
>(3) Should I junk for parts.
>(4) Will somebody come over and cut off my left index finger to remind me
>that only enough solder is correct.
>(5)Should I just put it all back together , sit it by the SX-101 and hide a
>Yaesu behind the front panel.
>
>really disappointed tonight.
>Al
>fritsche@msn.com
>
Hi Al,
I laughed and cried for you tonite. Your ability to convey your great sense of humor in writing is the best I've ever read on the list Some of your experiences with broken slugs, switches etc are the true makings of a BA lovers nightmare , to be exceeded perhaps only by accidental electrocution. I like your solution #5 best. Seriously though, the HT-32 is common enough at swaps that I think you should hold out for a junker.
                                                                Jim Carrington

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: "Allan Fritsche" <fritsche@msn.com>
Subject: HT-32 Horror, Thanks
Message-ID: <UPMAIL03.199702050004320259@msn.com>

Hey Gang, got home from work tonite and walked by the HT exciter sub chassis sitting on the bench. I gave it the Bronks cheer and then thought for a minute. It wasn't its fault that i screwed up. SO I gave it a pat on the head.
Thanks to the many that replied with condolences.
Now Currently looking actively for a junker HT-32, any nibbles out there?
Al
fritsche@msn.com

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: John Shriver <jas@shiva.com>
Subject: IF filters
Message-ID: <199702042019.PAA05062@shiva-dev.shiva.com>

I'd note that the Tek 1 & 3 series spectrum analyzers have a common variable-resolution crystal bandpass filter. These are centered at 100 kHz, with switch-selected resolutions (bandpasses) down to 10 Hz. Uses two crystals, variable caps (out of phase) to balance out the crystal capacitance, four transistors, coils, etc. They made it on a 1" x 4" board.

Look in the manuals for 1L5, 3L5, 1L10, or 3L10. (Might also be on the 1L20 and 1L30.)

It's a bitch to do the calibration procedure on. Something like 4 or 6 interacting adjustments!

Of course, this isn't a flat-top filter like the Collins mechanical filters presumably are.

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: Pete McCollum 04-Feb-1997 1129 -0700 <mccollum@ssdevo.ENET.dec.com>
Subject: Japanese nomenclature
Message-ID: <9702041829.AA21594@us3rmc.pa.dec.com>

[Ben Nock made reference to his Japanese "Type 94 Number 3" radio]

Hi Ben,
The "94" in the Type number refers to the year that the model was introduced, so there can be many different radios that are "Type 94". In that case, the "Number" (Model) number differentiates them.
The number 94 comes from an ancient Japanese calendar year 2594, which corresponds to 1934 (if I remember it correctly). I can double-check that if you like. Most modern Japanese folks are not familiar with the old calendar, and will not recognize it. A lot of WWII Japanese equipment used the ancient calendar in the numbering system. For example, the standard infantry rifle during the war was the Type 99, which was introduced in 1939. However, the previous rifle model was the Type 38: it was introduced in the 38th year of the Meiji era, which was 1905. So, they changed the numbering system as WWII approached.

Meanwhile, the "date" on most (all?) equipment will be a Showa year and month: add the year number to 1925 to get the Christian year. "Showa" refers to the reign of Emperor Hirohito, and 1926 was his first year as Emperor.

>The tx being marked "Tokyo Works For Ministry"

I suspect that this is not a very accurate translation, or is incomplete.
I would be glad to give a "second opinion", if you wish.

>The rx unit is marked with the same set numbers and
>"Nippon Communication Industries Co Ltd.
>Ohmori Branch Offices, Sanyo Works"
>Now, is this the same Sanyo that went on to rule
>the world of electronics ?? or is Sanyo a common
>name, like Clinton or Barr, out there ?

Yes, it may be the same company. "Sanyo" is generally not a family name,
just a company name. The big electric companies all have a "MON" (company
logo) that will appear on many of the parts. For example, my Oscar fighter
receiver has many parts made by Mitsubishi, and the logo is a 3-diamond
design (that's what "mitsubishi" means). So, check for a logo on the
internal parts, and compare it to the logo on some modern Sanyo stuff (I
forget what a Sanyo logo looks like).

>I have the tx tube coming from Japan, it was missing,
>so hopefully, we can even get the thing on the air when it arrives,

Check the continuity of any inductors that are wound with fine wire. Typically,
these L's are in little metal cans, but the cans are not air-tight, and
there is no sealant inside. I have two pieces of Japanese gear that *both*
have open L's in them (AF chokes, I think). They just weren't built well
enough to survive 50+ years... they didn't have the same quality of components
that we had at that time.

Pete

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: "Broline, Nick (Tracor MS Mail)" <ENB@eng1.tracor.com>
Subject: Look for an RCA AVT-112A
Message-ID: <c=US%a=_%p=Tracor%l=TRACOR/AUSTIN/00029771@ems1.tracor.com>

Sometimes one encounters a creation which captures the imagination
because of its
elegance or cleverness of design. I had the occasion to examine a NIB
RCA AVT-112A
which is certainly near the top of the heap in simple elegance of
design. (Its not mine!!!) This transmitter
was apparently designed to be mounted under the instrument panel of a
light aircraft (U/W the
Army+s L-1,2,&3 high-wing observation aircraft, I believe). Used four

6V6+s as crystal
oscillator, PA, and P-P modulators, and operated between 160 and 75 meters (so it
appears). RCA also made a companion receiver identical in size, and mounted beside the
transmitter. Power was supplied by a vibrator supply .

The elegance of the copper-plated chassis is shadowed by the use of ALL the available volume and
neat features like use of a dual-pattern eye tube, where one pattern displays plate current
(for dipping the final) and the other shows relative antenna current (for loading). The
tuning controls are a plate tuning cap and a switched and variable loading control to tune
any length short- or long-wire antenna. The variable loading control uses a coil within another coil
air-core variometer for fine inductance changes, with switched taps for coarse tuning.
Because of the depth limitation in placing a tuning eye tube horizontally in the chassis,
the eye tube has no dc amps in the envelope, but uses a 6SL7 in the tube line-up to
provide gain.

I was told that the radio was typically used in airborne recon applications. Because the
host aircraft had no power systems in them, a special battery box had been built into the
aircraft to house a carry-on 6 volt wet cell. Before a mission was flown, the crew would
check out a fully-charged battery from the ops center, place it in the battery box, and fly a
mission. Tx filaments (front panel switch) were left off until needed. When the battery
was exhausted, the mission was over, and they returned to base.

I would advise everyone to keep their eyes open for these little jewels. Probably won+t be
in the lime-light at swap fests, but down in that dusty box beneath the table where the
REAL goodies live. Once you see one, you+ll fall in love. I+d like to see one on 160m
AM to use for local chit-chat, using its antenna tuning capability on a random wire
vertical antenna.

The only other units which might be cousins to the RCA would be the

radios (like Links)
 built for the law enforcement folks operating below 160 meters. While
a lot of the services used
the MF freqs for base-to-mobile, there was substantial mobile-to-base
support. Texas
highway patrol was one such user.

Observations or discussions??
73,
Nick W5FUA

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: ARONGV@aol.com
Subject: Manuals For Postage!
Message-ID: <970204192457_-1811269648@emout14.mail.aol.com>

Hi Gang:

I think you guys can help me clean out my shelves. The following are repro
and/or original manuals I no longer need. All I'm asking is postage money. If
you know the rig, you know about what size they are and about what to send.

Don't bother asking for two manuals!!

Please respond via my E-mail address ARONGV@aol.com

In following, R designates repro, O for original.

Heathkit Comanche MR-1 (VG, heavy R)

Hallicrafters S-40B/BU Operating & Service (R)

Heathkit ID-4001 Computer WX Computer (VG O, heavy)

Heathkit SB-301 Assembly Manual (Heavy, O)

Heathkit HM-102 Power meter (VG R)

Hallicrafters SX-42 Operating Instructions (R)

National NC-57 Instruction Manual (O)

National NC-57 Instruction Manual (R)

Heathkit Model SG-1 Sig Gen (O)

Johnson 250 Matchbox Op Manual (R)

Hallicrafters S-77 Service Instr. (R)

Heathkit HR-10B Receiver (O)

WRL SM-90 Screen Modulator (O)

Hallicrafters S-40 Op Instr. (R)

Sams Hallicrafters S-38B (O)

Hallicrafters S-107 Service Data (R)

Heathkit SB-401 Assy. (O)

Heath ID-1290 Weather Station (O)

National NC-109 Instr. manual (R)

Knight T-60 Wiring, Service, Oper (R)

Heathkit Apache TX-1 (R)

National NC-303 (R)

And that's the end of this happy trail. Ron Wo0IZ Kansas City
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Keeping Hallicrafters, Johnson & Swan Equipment on the Air.

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: don merz <71333.144@CompuServe.COM>
Subject: Microphonious NavyRAListhis
Message-ID: <970204132405_71333.144_DHB59-3@CompuServe.COM>

Well, the RAL cleaned up beautifully. GoJo on a toothbrush works miracles
on black wrinkle paint! But I had great raw material to work with this time--
this RAL is near-mint. It came with the original antenna connector which is
one strange beast. It's sort of like a coaxial connector for a banana plug.
The whole thing seems to be stainless steel except for the center "pin."
The word "pin" is in quotes because the center conductor is female and
still sticks out inside the shell--female and male together--unisex!

After some follies with the connector which included chasing a metal "key" that is about the size of the tip of your little fingernail (The key locks together two pieces of the weird 3-part shell of the connector), power was applied and the 52 year old beast came to life. A dirty bandswitch got some Deoxit treatment after which reception was wonderful. One problem remains though--this thing is severely microphonic. The slightest touch is heard in the headphones. I guess I'll try a brace of new tubes unless anyone has any other suggestions. I've had some sets with minor microphonic problems before but never as bad as this. Any ideas?

73, Don

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: Scott Robinson <spr@earthlink.net>
Subject: Re: Microphonious NavyRAListhis
Message-ID: <32F7965E.2F8A@earthlink.net>

------------1558165F2D301
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii

Don,

First off, the antenna connector you describe sound like a General Radio (GenRad) hermaphroditic RF connector. I'm sure GenRad can still supply them. They are, are I recall, quite nice-very low SWL up to about a GHz, if rather expensive.

Second, extreme microphonics usually mean a flaky connnection somewhere rather than a bad tube. Do you get a "bong" sound or a burst of noise when you tap the Rx? If the latter, tubes aren't the first place to look.

Even if it's a tube, rather than do ablanket replacement, tap each in turn, or start pulling them out, RF amp first and going through. You'll find the culprit that way.

Regards,

------------1558165F2D301
Content-Transfer-Encoding: 7bit

Content-Type: text/html; charset=us-ascii

<HTML><BODY>

<DT>Don,</DT>

<DT> </DT>

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<DT> </DT>

<DT>Regards,</DT>

<DT> </DT>

<DT> </DT>

</BODY>
</HTML>
------------1558165F2D301--

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: Mike Toneri <toneri@ils.net>
Subject: More BA's for sale
Message-ID: <199702041856.NAA05707@server1.ils.net>

Here are a few more boat anchors listed on local swap nets:

HQ129X + Speaker $125 US - Bob AA2ZW 716-681-4008

NC 190 + Speaker $100 - AA2ZW
Apache + Mohawk + Warrior Amp all in rack - $300 AA2ZW

Central Electronics 20A $60 CDN - VE3RF, Larry 519-632-7921

HT44 + SX117 + PS150-120 power supply/speaker + KW107 tuner - $350
HRO50T + coils - $75 VE3JFT, Tom 905-374-0905

73...Mike VE3FGU

****
Mike & Lynda Toneri   E-mail: toneri@ils.net
****

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: "Gene S. Katz" <gkatz@motown.lmco.com>
Subject: NAVSHIPS Radar Timing Circuits Manual
Message-ID: <Chameleon.970204140507.gkatz@pc062164.motown.lmco.com>

Name: Gene Katz
E-mail: gkatz@motown.lmco.com
From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: "D. Ragsdale" <doragsda@polymail.cpunix.calpoly.edu>
Subject: Need some BC-611-E Parts
Message-ID: <199702042150.AA110343012@rubens.artisan.calpoly.edu>

Need the following for a BC-611-E I just got:

Plastic covers for mic. and speaker (the screw on part that is black with
the holes in it).

Antenna Cover

Strap and top pin for the strap

Copy of manual.

Please let me know what you've got. Thanks.

Dave

David Ragsdale, R.E.H.S. Risk Management
California Polytechnic State University, San Luis Obispo, CA

du651@oasis.calpoly.edu or doragsda@cymbal.aix.calpoly.edu

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: John <jackiv@postoffice.worldnet.att.net>
Subject: part needed for Swan 350C
Message-ID: <19970204205413.AAA19433@LOCALNAME>

HELP I need for a friend a plate tuning capacitor for the 350C Swan.

I told him not to load it into a piece of wire (about 15 feet) with out an antenna tuner. many of the plates have been vaporized and cannot be cleaned up soo--- If anyone has a junker that I can get the cap from, or a really trashed
one which has the cap, please reply and I can call on the twisted pair or whatever.
TNX es 73
JACK'S WIZARD WORKS
K0EWU

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: Jeffrey Herman <jeffreyh@hawaii.edu>
Subject: PBS Telephone documentary
Message-ID: <Pine.GSO.3.93.970203215719.24357A-100000@uhunix3>

Wonderful. Simply wonderful.

I hope all of you were able to view the PBS documentary on the history of the telephone (did you see the firebottles in the amplifier that was used for the first coast-to-coast call?).

In 39 years, the country went from one phone to 11 million.

Each phone required its own wire to the central office - each telephone pole had dozens of cross arms; hundreds of wires ran from pole to pole!

Sure would like to visit some telephone museums - anyone know of any?

73,
Jeff KH2PZ

P.S. We've got the complete set of back issues of the periodical TELEPHONY in our library. I think I'll have to spend some time in them.

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: the-radio-doctor@juno.com (Rob D Long)
Subject: Queens Estate Update
Message-ID: <19970204.162122.10286.11.the-radio-doctor@juno.com>

Hello all, Thanks to all who offered assistance in me retrieving my 500! as it currently stands I will pick up myself. If this changes I will be in contact with you! Well if your interested in items or just following me along on my First Estate Sale Adventure, heres a current update...

Another Transmitter has been found! it is said to be quite large, NO name that the fellow could locate, appears to be commercially built but appears older than the rest of the TX's (IE: The MINT Viking 500) , Any ideas? I will be able to provide more details when i get out there! I'm planning on leaving here either Sunday or Monday of Next week, Will be driving to New York, Packing everything in a Van, and returning home to sort it all out. Some more NIB parts have been found along with A large box of QSL cards. As it stands right now I should have enough cash both for the trip and to purchase the entire collection. I will contact ALL parties who expressed an interest in any of the items upon returning home. My opinion is that a large portion of this stuff will be of interest to members of this list, especially if the condition is what i expect it to be! I of course I will list the items here first. I will also give preference to anyone who has offered me assistance in retrieving my 500!

73 to all, Rob

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: bdhall@ghg.net (Benjamin D. Hall)
Subject: R-390A Engineering Report Update
Message-ID: <32F730EC.74F3@GHG.net>

Hi Folks, here is my latest progress report on the R-390A Engineering Reports.

I'm still working on the photocopies to send out to the "tag-team" photocopy folks. The problem is that the original is 70 pages double sided, and due to the lack of a good high speed copier that isn't broken half the time, I've been able to do only about one copy a day without raising suspicion, and that is when I have had the time to make the

copies. So, I estimate it will be another two weeks before it hits the
tag team. Sorry for the delays, this has turned out to be a much larger
production than I estimated, but I will persevere!

73,
Ben
--
```
----------------------------------------------------------------------
 From the computer of            | Collector of fine firebottle
 Benjamin D. Hall, Houston Texas | equipment, as well as other things
 BDHall@GHG.net (home) -or-      | involving Earth, Air, Water, and
 Benjamin.D.Hall1@JSC.NASA.gov   | Fire.
---------------------------------------------------------------------
```
PLEASE NOTE MY NEW HOME E-MAIL ADDRESS above. My old address,
BDHALL@GHGCorp.com, will still work for a period of time however.

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: Conard Murray <ws4s@InfoAve.Net>
Subject: R390/R390A sizes
Message-ID: <2.2.32.19970204230453.00adfb18@infoave.net>

Hey R-390 gurus,
Are the 390 and the 390A the same physical size?
Thanks,
de Conard WS4S
```
.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.
. Conard Murray  WS4S    Glowbugs listowner .
.  217 Dyer Avenue        ws4s@infoave.net  .
.   Cookeville, TN  38501  615-526-4093     .
.    <><  Wise men still seek Him  <><      .
.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.
```

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: rdkeys@csemail.cropsci.ncsu.edu
Subject: RAL availability and pricing.
Message-ID: <9702041944.AA142391@csemail.cropsci.ncsu.edu>

> Hi Bob et al.,
>
> I've followed the discussion of the RAL with interest - sounds like a fun
> radio to play around with...Not sure that I want to trade my Drake 2B,
> 'though.

I would, but that is only me......(:+}}..... and I am the odd feller out,

it seems with a fond love of these ugly beasties.

> I don't think that I've ever seen one of these things at swapmeets, etc.
> How available are RALs and how much should you expect to pay for one?

They are not real common, but they were made in several thousands for
1937-1945 use. They were used in subs as late as the 60's. I keep
telling folks that I would not pay over 75 bucks for one with power
supply and cable and 60 bucks for one without power supply and cable.
I bought mine (2 ral and 2 rak) for 25 bucks and under at hamfests.
I bought my first one as a novice (albeit 25 years ago) for 10 bucks
and paid more than that to get it shipped greyhound bus.

You need to ask around for them because they are heavy enough and
less desireable enough that they often get left behind and don't show
up at hamfests as often as yaesus and collins and r-390's. They tend
to show up at outdoor hamfests and not the polished indoor shows.

Because they have ZERO dial calibration (it only has a 0-1000 dial scale)
and they are trf regenerative, everyone in their right mind avoids them,
right.....(:+}}..... except us BA/GB folks wats enjoys a good regenerator
or two.....

Bob/NA4G

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: rdkeys@csemail.cropsci.ncsu.edu
Subject: RAL microphonics
Message-ID: <9702041747.AA142077@csemail.cropsci.ncsu.edu>

If you are having microphonics on your RAL you might try the following:

1. Check tubes (sometimes a bad one pops up in the detector or the socket
    has a loose or corroded contact --- frustrating).

2. Check bandswitch (more serious) The bandswitch floats in the air
    on the RCA designs. It must have about 10 thousandths air clearance
    on all sides to work properly. If the switch does not float freely
    it will be microphonic. You can check this by rotating the bandswitch
    very slightly. If it goes microphonic, it might be the culprit.
    Also, the switch needs proper lube on the train and on the contacts
    (RCA recommended plain old vaseline THINLY applied on the contacts).
    LUBE all bearing surfaces of the bandswitch gear train and rotate
    end to end about 25 cycles to fully lube the train and clean the
    contacts. This has cleared such microphonics problems in my units.

3. Check for loose solder joints or wires around the detector. The
    grid cap can be suspect.

73/ZUT DE NA4G/Bob UP

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: JONWEINER@aol.com
Subject: RE: RAS-5
Message-ID: <970204082424_136861334@emout05.mail.aol.com>

I recently received a National RAS-5 composite receiving set-up. Has an
HRO-like RX, P.S., Speaker, and coil storage box. Anyone know anything about
it?? Also, anyone have a copy of the schematic/manual?? thanks, Jon, K1VVC

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: polepeeg@aa4rm.radio.org (Marty Reynolds' BA ID)
Subject: RE: RAS-5
Message-ID: <199702041513.KAA03047@aa4rm>

At first cut, it's a Navy HRO with a 175 kc IF. Coil set ONLY works
with RAS-5. Speculation is Navy wanted RX to tune Euro BC and radio 190-500
radio range.

Great looking period piece on the original tabletop rack. And with 2 RFs and 2
IFs,
it has plenty of gain albeit with pre-octal tubes.

Images become awful above, say, 6mcs and selectivity is... there's no xtal filter.

Other than that, it's perfect

   Marty

(I SWL a little with mine and thot of the set when I visited the Arizona shrine -
 "bet there's one down there" came to mind)

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: Bill Breshears <bbuck@cccbbs.com>
Subject: re SB 303 Problem
Message-ID: <01BC1285.9E574100@s16.cccbbs.com>

Bill wrote:

>The Heath SB-303 manual calls for using the receiver in a stand-alone mode

>by attaching the "LMO Load" plug to the LMO jack. Does anyone know what >it does and how I can make one??

The LMO Load is a 47 ohm resistor soldered to an RCA type male plug, center pin to ground. It provides a nominal 50 ohm load to simulate the coax and circuit to a companion transmiter. It keeps the local oscillator level constant for either case. Mine works OK with or without the load so it doesnt seem to be critical.

Bill Breshears WC3K ex W5VVP, VK8BJ, WA6ZEZ
Maryland
bbuck@cccbbs.com

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: arc5@ix.netcom.com (David Stinson)
Subject: Re: SCR-133?
Message-ID: <199702040444.UAA22917@dfw-ix1.ix.netcom.com>

You wrote:
>
>What is an SCR-133?
>
>William Donzelli

According to the US Army Signal Corp Museam index, and SCR-133 is:

"Radio, Plane-to-Plane (BC-129), receive .25 to 1.75 MC,
 send .86 to 2.0 MC, circa 1925."

I have no other information, but sure sounds interesting.

73 DE Dave Stinson AB5S

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: Tom Norris <badger@telalink.net>
Subject: SCR-XXX descriptions on The Mil List page
Message-ID: <3.0.32.19970203231646.006c3694@telalink.net>

For casual lookup, I have a link on the Mil List page that will take you to Fort Gordon for info on SCR-series gear. Sparse info on the older stuff, but there....

Thanks

Please visit my web site with info on military communications gear:
HTTP://telalink.net/~badger/millist/index.html

ANY and ALL Contributions Welcome.
Photos, descriptions of gear that isn't
listed - no contribution too small.
****
Tom Norris KA4RKT
badger@telalink.net Nashville, Tennessee, USA
thermionic@techie.com

****

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: BEN NOCK <106312.1035@compuserve.com>
Subject: Shortwave Rx's, past and present.. poor
Message-ID: <199702041741_MC2-10D6-17E5@compuserve.com>

That's my opinion after reading it. Many many
sets left out. Sets classed as VERY Scarce when
they abound a plenty, and prices, well.

Loads missed out. No KW sets, one of the
biggest maufacturers during 50/60's. Only
one brief mention at back of book. Loads of
Eddystone rx's missed out, why ?

If he's going to mention the pathetic 9R-59D,
which by the way are not VERY SCARCE ! and
then leave out really good radios, whats the point.

Afraid it looks like another biased account of
mother earth. Glad I didn't pay for this copy !! hi.

Ben G4BXD

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: "Rick Blank" <rblank@legend.txdirect.net>
Subject: Re: Shortwave Rx's, past and present.. poor
Message-ID: <199702050056.SAA20608@legend.txdirect.net>

> That's my opinion after reading it. Many many
> sets left out. Sets classed as VERY Scarce when
> they abound a plenty, and prices, well.

> Loads missed out. No KW sets, one of the
> biggest maufacturers during 50/60's. Only
> one brief mention at back of book. Loads of
> Eddystone rx's missed out, why ?
> If he's going to mention the pathetic 9R-59D,
> which by the way are not VERY SCARCE ! and
> then leave out really good radios, whats the point.
> Afraid it looks like another biased account of
> mother earth. Glad I didn't pay for this copy !! hi.
> Ben G4BXD

Well, maybe it's because the author was looking at the subject from a USA-centric point of view?

In the fifty or so hamfests I have attended in the last 7 or 8 years, I have seen ONE KW set..ONE! And that was a beat up, broken piece of cr*p! Does that make it rare? Here in Texas, sure as shootin'! In Jolly Olde'? Not hardly!

Eddystone? Wasn't that Wally Cleaver's friend on "Leave it to Beaver"?....NEVER seen ANY Eddystone in the flesh! Last time Bill, K5LLK and I visited Ozona Bob, W5PYT, he had one on the way but not there, so, I was close, once! I guess that makes Eddystones rare DX here in this part of the world!

Just my $.02 from near the end of the civilized world....beyond here be dragons!

Rick Blank, KI5SL rblank@txdirect.net
2223 Blanco Road AMSAT NA# 26195
San Antonio, Texas 78212

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: Tom Norris <badger@telalink.net>
Subject: Sub for tube -5686?
Message-ID: <3.0.32.19970203231035.006c38f0@telalink.net>

Have an ARR-41 on its way. Need to know if there is a sub for the 5686 AF out tube? Cant see mto find one in any of my sparse literature.

****
Tom Norris KA4RKT
badger@telalink.net Nashville, Tennessee, USA

  Eagles may soar free and proud, but weasels
       never get sucked into jet engines.
****

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: David Prince <davprin@gil.com.au>
Subject: Re: Sub for tube -5686?
Message-ID: <32F80706.DA4@gil.com.au>

Tom Norris wrote:
>
> Have an ARR-41 on its way. Need to know if there is a sub for the
> 5686 AF out tube? Cant see mto find one in any of my sparse literature.
>

Tom, I believe another designation for the 5686 is QM328 if that's any
help. Can't find any substitutes listed in any of my manuals.

de VK4KDP

--
Dave Prince
davprin@gil.co.au

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: anders@autopsy.corp.sgi.com (Greg Anders)
Subject: Swan 500CX Schematic Needed
Message-ID: <9702041117.ZM18464@autopsy.corp.sgi.com>

     I'm in need of a schematic for a Swan 500CX transceiver in order to
give a tuneup to a working unit I bought recently. As usual I will gladly
cover any reasonable costs. FAX copy would be great assuming I can read the
print.

THanks,

--

Greg Anders

"One doesn`t discover new lands without consenting to lose
 sight of the shore for a very long time."

Andre Gide
French Novelist

anders@autopsy.corp.sgi.com
KG6YV

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: jproc@bellglobal.com
Subject: Re: TCS Mods
Message-ID: <Chameleon.4.01.2.970203235718.jproc@jproc.bellglobal.com>

Dave,

That article covers four areas:

1) If the TCS is missing a power supply, the article explains
   how to build one.
2) Keying conversion from plate relay to cathode. Original
   keying is OK for AM but unacceptable for CW.
3) Modification of output circuitry to obtain maximum power
   transfer for specific antenna installations. Its too long to explain
   here briefly.
4) The need for an external audio preamp to boost improve the TCS
   modulation level.

Since I don't own a TCS, I cannot provide any technical assessment of the
mods. My only mission here is make the article available to anyone who is
familiar with this equipment type.

Regards,

Jerry Proc VE3FAB
E-mail: jproc@bellglobal.com
Radio Restoration Volunteer
HMCS Haida Naval Museum
Toronto, Ontario

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: Conard Murray <ws4s@InfoAve.Net>
Subject: Re: TCS Transmitter Mods
Message-ID: <2.2.32.19970204143107.00ace33c@infoave.net>

>i wonder if anyone
>would comment on using the TCS xmtr on cw
>with the original breakin relay keying. hue miller
>
Hi Hue and the list,
I have been using a TCS-12 setup with the original relay keying on cw for a year now. My impressions are that it is great for 10 WPM or less, but at higher speeds it takes some getting used to. I have to totally reset the bug to swap transmitters as the TCS requires much heavier keying to get the same sounding output. Sometimes I lose a dit or two in a string somehow. I hear the relays energizing, but no keying of the oscillator. That is pretty seldom, but still annoying.
The noise is no problem ... I think of it as a feature! I wouldn't be surprised if the relays were modulating the VFO some on some sets, but I haven't noticed that effect on mine. If my 12 volt supply is not stiff there is some drift due to the heater voltage sagging though.
Since my transmitter had been modded on before I got it, I think I would try the cathode keying mod to see what the rig feels like that way. I have been tempted to tinker with the keying relay to try and improve the action. The relay armature has what appears to be a counterweight screwed on the end opposite the contacts and I have thought about removing it to see what happens. I have a T-R switch that I use for the Viking II/receiver-of-the-day combo that is a large open-frame relay driven by the cw key that swaps the antenna over and actuates the transmitter. This works quite well up to 30 WPM+, so I know the TCS could be made much better if the relay action was improved.
Anyone else out there with comments?
73 all,
de Conard WS4S
friend to all things TCS
.-.
. Conard Murray WS4S   Glowbugs listowner .
. 217 Dyer Avenue   ws4s@infoave.net .
.   Cookeville, TN 38501 615-526-4093   .
.   <>< Wise men still seek Him <><   .
.-.

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: "Bill Richarz" <wricharz@transprt.com>
Subject: Teletype Manuals (Western Electric)
Message-ID: <19970203233104.04d6c8d3.in@transprt.com>

Cleaning a file cabinet out & ran across 3 TELETYPE
Manuals. They have the grey covers & are in excellent
condition. Anyone have need of these, make an offer?

Bulletin No. 126)
Issue 2   ) DESCRIPTION Type Bar Tape Printer
December 1931   )   (Model 14)

Bulletin No. 162)
Issue 1   ) DESCRIPTION of the Single Magnet
January, 1940   ) Reperforator (Models 14 & 20)

Bulletin No. 161)
Issue 1   ) DESCRITION Type Bar Page Printer
March, 1940   ) (Model 20)

Bill, N4DH

==
Bill Richarz <N4DH> ex WA4VAF | Internet: wricharz@transprt.com
10035 Little Creek Rd. | Packet: N4DH@W4BFB.#CLT.NC.USA.NA
Charlotte, NC 28227 | Phone: (704) 545-9368
HomePage | http://www.transprt.com:80/wricharz
==

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: List Admin/Owner BoatAnchor Mail List <listown@jackatak.theporch.com>
Subject: The List Proc archives are shooting blanks
Message-ID: <9702040705.aa16910@jackatak.theporch.com>

Gang-

> It looks like the Listprocessor is shooting blanks again.

> >Archive BOATANCHORS, file vt-to-jan.tube.crossref.
> >Part 1/1, total size 17626 bytes:
> >
> >------------------------------ Cut here ------------------------------

> >
> >------------------------------ Cut here ------------------------------
If some of you try to retreive files from the archives, please be
aware that for the moment, the list server is firing "blanks".

There is a bug in the software, that Phil and I have not been able to
pin down, that periodically causes the list server to "lose its place"
and send empty files.

Ordinarily, I'd not write the list about this condition, but Phil is
away, and access to his system is "limited" so it may be a day or two
before I can get this problem fixed...

PLEASE bear with me...
--
73
Jack, W4KH/Mobile (75M SSB 2-letter WAS #1657/#1789 -- both all mobile! ;^)
            - - - BoatAnchor Mailing List Archiver/Owner - - -
listown@jackatak.theporch.com   ----   firebotl@jackatak.theporch.com

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: KB9VU@aol.com
Subject: Tube data needed...
Message-ID: <970204064800_648506670@emout16.mail.aol.com>

Anyone have the TV-7D/U tester set up data for the 6EJ7 and 6FQ7? Thanks

Mike, kb9vu@aol.com

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: Rich Arland <qrprich@postoffice.worldnet.att.net>
Subject: Use of Desiccant
Message-ID: <19970204183844.AAE21061@LOCALNAME>

Gang:

THANKS to all who responded. Looks like this stuff ain't all it's cracked up
to be!

73 rich K7SZ

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: Karan Lee Carruth <klccarru@tenet.edu>

Subject: Re: Use of Desiccant
Message-ID: <Pine.OSF.3.91.970204174650.31841A-100000@alpha.tenet.edu>

Rich,

I am curious to know what the net result of your dessicant study was.

For one thing, it seems like, once a sealed container is opened, you would be better off discarding the dessicant than leaving it with the item to be protected because it would actually attract moisture. Is that true?

I'm sure the group would like a short summary of proper dessicant use.

Best regards,

Lenox

Lenox Carruth, WA5OVG
Dallas, Texas
klccarru@tenet.edu

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: rdkeys@csemail.cropsci.ncsu.edu
Subject: Variacs and power supplies, revisited for clarity.
Message-ID: <9702041922.AA142313@csemail.cropsci.ncsu.edu>

While on the thread of variacs and power supplies, I thought I would clarify a few things and comment on a few others......

>I have been watching the 3B28 discussion lately and finally the idea of
>using a Variac on a rig with this tube was mentioned by our esteemed Bob.

>Please be careful with Variacs!!!!!!!!!!!

Yes, they can put out more than 120vac if you are not careful in wiring them up or if they have the 120/140v switch you can easily overpower a fine BA piece.

The thread under discussion was bringing up a power supply with diodes in a string sans resistors and capacitors spike/equalization protection in lieu of the 3B28's that were going south at great speed in my old AN/SRT-14, due to my lot in life of having picked one with used 3B28's of unknown life expectancy, and all my spares being well used.

As a point for discussion I brought up the idea of using the diodes in a string without spike/equalization protection, and gave the example of my power supply (0-1500vdc 1a) that I use in Big Bertha Radiomarine (RMCA ET-8019A with a pair of 807's and a pair of 813's). On Big Bertha, it is convention to switch on the filaments, wait a couple of minutes, switch on the HV, and variac it up to speed. This has, in 20 years of daily use, on old capacitors and ratshack diodes, never even thought of blowing a capacitor or a diode. So, as an example, it is a worthwhile way to bring up a power supply, in timed sequence mode (manually as I do it or exotically with timing or motor circuits). Ideally, it would be nice to have a motordriven variac (scarce) with followon relays to bring up things in sequence, but as a geek novice, I decided to do it manually with the fewest parts count, in Big Bertha, since back then I did not know any better, or enough otherwise. In the case of the AN/SRT-14, it is sequenced by motordriven switches to bring up blowers and filaments then LV, then HV (switched manually). Unfortunately, it does not work so well, even for the military, because they started putting in diode replacements for the rectifiers after about 5 years in service (about 1960 or so). Alas, the 3B28's seem to be most susceptible to the on-off cycling, or are just normally underrated or marginal in this application in the AN/SRT-14. Thus, my thought was to put in solid state diodes to replace them. A couple of other list folk said they had good experiences with the diode strings using 1N5408 3a diodes without the spike/equalization components. That is what I am doing now, also. The point was that timed sequence application of the voltages using a variac to raise the voltage from 0 to B+ over the course of several seconds required to twist the knob, had, in my experiences been entirely reliable and never gave any diode or capacitor blowups. I use about 5-10 seconds to rotate from 0-B+ on the variac (a slow hand rotation).

>A Variac is great if one wants to look for a problem with some component
>like a transformer or a resistor bank. Putting a Variac on a radio with
>the AC voltage coming up on the rectifier at the same time as the filament
>in the rectifier is waking up is a recipe for a nasty $$ experience!

Definitely, on most things already assembled such as commercial/ham/mil gear. But, if I were building a tube rectifier power supply, myself, I would use a separate filament transformer for the rectifier and power that up first, then use a variac to roll up the HV to speed. That would be the easiest on all components. Apparently, when the AN/SRT-14 HV comes on with the 3B28's it tends to stress them and may lead to short life span on the tubes. It works fine for the 500v supply but is marginal

on the 1300v supply. For my money, on anything big in the power supply department, I will prefer to use a separate filament transformer and then always variac up the HV. That is the easiest and least stressful on the parts.

>A Variac is great to bring the filaments up on expensive transmitting tubes
>in a smooth period of time of a few seconds.

Yes, like 813's in Bertha, and elsewhere. In this case dual variacs are appropriate --- one for the filaments and another for the HV. Not cheap, for sure, but thinking ideally, and if you hunt around hamfests, you can usually find one or two variacs at big fests for not that much guildern. The small 300w variacs are good for a filament or HV variac for most things, in the 100 watt rig class. The larger 1000w or 2000/2500w sizes are needed for the larger rigs. Since Bertha is in the 500w input class CW mode (50% duty cycle), the 1000w variac works fine for HV.

>A Variac on a radio in which the B+ and the tube filaments come on
>simultaneously is NOT a good idea unless you bring the voltage up quickly,
>a few seconds or so.

Probably so. In my case, I always opt for separate filament and B+ transformers so I don't have that problem. I might also speculate that if the load was applied at such a low rate via a variac, with the filaments and B+ all coming on together, that it would still be fine. The idea is merely not to present a heavy load on the rectifier when it is coming up. If it comes up very slowly, the heavy load does not present itself. I would propose, as a test, that one put a load on a power supply and a meter in the B+ line and measure the currents bringing it up slowly with a variac. IF it goes high, that would present the load too quickly and be a problem. IF it is kept within the rectifier specs, I would be of the opinion that it would do no harm. There is a time constant that needs to be obeyed, and whether or not it is within a customary operator acceptable timing sequence routine is another story. If it takes 100 seconds that is too long. It it takes 15 seconds, OK. But, the ideal would be separate filament and HV transformers time sequenced.

>Please do not use a Variac on any transmitter that has a motor driving a
>blower. That which the air from the blower is intended to cool will get
>too hot quickly, the Motor will overheat quickly if left running
>significantly off the rated voltage etc.

I would have thought this would be obvious, generally on motors and the like. The use of a variac to bring up motors, I would contend, is fine. Putting full load and power instantaneously is always harder on components than bringing them up slowly in proper sequence, including motors etc. Bringing the load on-line slowly on motors and generators is historically the way it is preferred to be done on large units. There is absolutely

no reason theoretically why it will be any problem on small units. On small units, traditionally, one usually just applies power and enough slack is built into the design to handle the instantaneous overload and power dissipation. That works fine on most things by proper choice of wire sizes, numbers of turns, capacitor values, etc., in the motor design. Bringing the blowers up over a period of 30 seconds or so on a variac has worked fine for me, the few times I have needed to do that sort of thing. Running them undervoltage is probably not a good idea. Running forced-air cooled tubes without blowers or undervoltage on the blowers is also not a good idea, generally, because the designs were such that small confined spaces had to have forced air cooling to dissipate the heat load from the tubes under running conditions. But, how many of us know that tubes like the 4CX150D will run fine WITHOUT forced air cooling, if you dissipate the heat into the ambient air properly --- Eimac did tests on that years ago, and they will work fine, as long as the ambient air dissipates the heat load. It is not a well known nor publicised bit of information, from what I can tell, but it can be found if you look around in the bilges. Anyone have those Eimac test results or reference still? I saw them about 15 years ago in some magazine or manual but have long since lost track of the citation. I also had a good friend that I palled around with that ran a breadboard KW on 80M with 3 each 4CX-250B's without forced air cooling for years, with no problems. The basic requirement is to dissipate the heat sufficiently to keep the seal temperatures within acceptable limits. Also, Eimac's test underrated the tubes somewhat (50% it what comes to mind, although my friend ran his a little harder than that). If I am remembering rightly, my friend used a 2000w sized variac on his pole peg ``pig'' 2400v transformer used to power that breadboard KW. I don't remember what he was using for the rectifiers in it, bit I think it was solid state diodes.

So, in my book, variacs are still a good bet on bringing up Bertha.

Caveat.....your mileage may vary.

73/ZUT DE NA4G/Bob UP

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: JOHN_SEHRING.parti@ecunet.org
Subject: VHF FM BA'S
Message-ID: <9702041949.aa00987@pcusa01.ecunet.org>

I run a bunch of Motorola FM BAs in 10 and 6 m FM.

I use the Sensicon A receiver strips exclusively. They were top of the line tube type rx strips. Sensicon mfrd from about 1950 to 1964 with very

few changes. About 18 tubes in each one, big Permakay filter towared the end of the chassis. Changeover from wide to narrow deviation done via replacement filter & a handful of passive components. Very selective & sensitive, quite immune to cross-mod & such unless the 6AK5 1st RF amp gets flat.

I have about 10 of 'em, 3@ on each band for diversity reception, sep. metering for each rx strip, plus 3-4 for spares. Lots of fun.

Also use Motorola xmtr strips which use pair of 6146's in final. Get 100 watts out depending on power supply used. Also have spare strips.

These strips are cheap enuf that I can have lots of spare ones.

Never have had any failures in the 15 years I've owned them even tho some are now 44 years old. They were built *very* well & must have cost an arm & leg when new.

They fill up two 6' floor standing racks, looks very impressive esp. to shack visitors.

Once had the matching 330 Watt amplifier using pair of 4-125A's.

Value? Probably nil but I love 'em. Lots of tubes anyhow!

-John Sehring (02/04/97 12:01 pm ET @Midlothian, VA) ucc wb2eqg

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: Rich Arland <qrprich@postoffice.worldnet.att.net>
Subject: Vintage Solid State e-mail address
Message-ID: <19970204183844.AAG21061@LOCALNAME>

Gang:

Someone sent me the posting e-mail address and I lost it. What I (and several others who've e-mailed me privately) really need is the subscription e-mail address for VSS. So, if someone on the BA list would kindly post that to the list so those of us who need it can pick it off, I (we?) would be very greatful.

73 rich K7SZ

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: Clark Thompson <cmthomp1@facstaff.wisc.edu>
Subject: Re: Vintage Solid State e-mail address

Message-ID: <32F78ACA.78A3@facstaff.wisc.edu>

Rich Arland wrote:
>
> Gang:
>
> Someone sent me the posting e-mail address and I lost it. What I (and
> several others who've e-mailed me privately) really need is the subscription
> e-mail address for VSS. So, if someone on the BA list would kindly post that
> to the list so those of us who need it can pick it off, I (we?) would be
> very greatful.
>
> 73 rich K7SZ

Hi Rich and everyone,

To subscribe to the Vintage Solid State list reflector send a message
with the subject line left blank to:

listproc@mlist.access.digex.net

In the body of the message include: subscribe vss

The list owner will reply within an hour or so.

73,

de Clark, KD9QI

cmthomp1@facstaff.wisc.edu

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: kilgore@dev.tivoli.com (Jeff Kilgore)
Subject: Re: Vintage Solid State e-mail address
Message-ID: <199702041920.NAA01254@wichita.tivoli.com>

Rich,

Send e-mail to listserv@fablotz.min.net. Put "subscribe vss" in the
message body.

73,
Jeff Kilgore, KC1MK

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997

From: rsolomon@tsd.textron.com
Subject: VSS List Address
Message-ID: <9701048550.AA855095279@cctds.tsd.textron.com>

Send to:

vss-request@acm.org

In the body of the message put:

subscribe vss your name

Thats all it is. Good Luck to all.

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: anders@autopsy.corp.sgi.com (Greg Anders)
Subject: W7FG URL Change????
Message-ID: <9702041041.ZM18391@autopsy.corp.sgi.com>

I tried the URL I had for W7FG this morning and received the dreaded "DNS unable to access this site" message. Has their web site moved??? If so, anyone know the address???

--

Greg Anders

"One doesn`t discover new lands without consenting to lose
 sight of the shore for a very long time."

Andre Gide
French Novelist

anders@autopsy.corp.sgi.com
KG6YV

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: Chuck Penson <penson@sci.mus.mn.us>
Subject: Re: W7FG URL Change????
Message-ID: <32F78AC6.CE2@sci.mus.mn.us>

Greg Anders wrote:
>
>   I tried the URL I had for W7FG this morning and received the dreaded
> "DNS unable to access this site" message. Has their web site moved???

The site is now at: www.w7fg.com

--
Chuck Penson
WA7ZZE

penson@sci.mus.mn.us
612.221.4510 voice
612.224.5092 fax
http://comped.sci.mus.mn.us

Madness takes its toll. Please have exact change.

From boatanchors@theporch.com Tue Feb 4 14:17:20 1997
From: Jake Hellbach <kk5hy@accesscom.net>
Subject: Re: W7FG URL Change????
Message-ID: <2.2.16.19970204201325.9397309e@accesscom.net>

Hi Greg,
His address changed to:
http://www.w7fg.com

73' Jake KK5HY

At 12:59 PM 2/4/97 -0600, you wrote:
>
>   I tried the URL I had for W7FG this morning and received the dreaded
>"DNS unable to access this site" message. Has their web site moved???
>If so, anyone know the address???
>
>--
>
>
>
>

>   Greg Anders
>
>
>
>   "One doesn`t discover new lands without consenting to lose
>   sight of the shore for a very long time."
>
>   Andre Gide
>   French Novelist
>
>
>
>   anders@autopsy.corp.sgi.com
>   KG6YV
>
>
>
>

Email via: kk5hy@accesscom.net
----------A.M.I. #832----------
Check out the Westside ARC Web page at:
http://www.accesscom.net/~kk5hy
Updated with Boatanchor links!!!!

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: Stephan Sykes <ssykes@emirates.net.ae>
Subject: Wanted - National Transmitter
Message-ID: <01BC1291.0B11B900@ssykes.emirates.net.ae>

I would like to trade a Collins 51s1 receiver for a Pre WWII National transmitter.
It would be used with my 1936 HRO as an OT station.
The Collins receiver is not in great shape, but complete. It is missing a case,
as most apparently are. It has not been modified.

Thank you
Steve Sykes
KD2OM

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: Jake Hellbach <kk5hy@accesscom.net>

Subject: WTB: crystal filter for SB-102
Message-ID: <2.2.16.19970204224031.9397a354@accesscom.net>

Hello to all,
I am looking for the crystal filter for a Heathkit SB-102

Heathkit part no: SBA-301-2

Thanks,
Jake, KK5HY

Email via: kk5hy@accesscom.net
----------------------A.M.I. #832-----------------
Check out the Westside ARC Web page at:
http://www.accesscom.net/~kk5hy
Updated with Boatanchor links!!!!

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: ARONGV@aol.com
Subject: WTB: Johnson/Swan
Message-ID: <970204034703_1660376399@emout19.mail.aol.com>

Hi Gang:

Finally got up a good 80m antenna, an 80 meter Windom Special.
Early winter snow took my big antenna trees down about 20 feet, but the
windom seems to work fine in tests this am on 80. Next CX!

Meanwhile I need the following:

Johnson 122 VFO

Johnson HA-5 VFO

Swan 500CX or 700CX

Please direct all responses to ARONGV@aol.com.

73s & Good Hunting

Ron
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Keeping Hallicrafters, Johnson & Swan on the air

From boatanchors@theporch.com Tue Feb 4 09:39:19 1997
From: djhutch@concentric.net
Subject: WTB; S-53 or 53A Receiver
Message-ID: <32F73D46.65CA@concentric.net>

I am looking for a Hallicrafters S-53 or S 53A receiver. Will pay cash or work possible trade. Please e mail all replies.

73's

Dave K9HT

From boatanchors@theporch.com Tue Feb 4 20:39:52 1997
From: John Wieder <jwieder@montrose-co.com>
Subject: WTD: Price guide: HX500 & xtal sets
Message-ID: <199702050032.RAA06440@gunnison.com>

Baland: Could anyone hazard a guess on a vgc HX500? The same guy also has some crystal sets available. Any idea what they would be worth? Thanks in advance for your help. 73 John K0JY jwieder@gunnison.com